

Amendments to the Claims

1. (Currently Amended) A working fluid which is adapted to be supplied to a working point where a working of a workpiece is performed ~~with the working fluid~~, comprising:

a solvent; and

microcapsules ~~filled with liquid-state substances~~ comprising an etchant, said microcapsules being dispersed in the solvent.

2. (Original) The working fluid of claim 1, wherein said microcapsules have an average particle size ranging from 0.1 μm to 1000 μm .

3. (Currently Amended) A working process which performs a working of a workpiece with a working fluid, the working fluid containing a solvent and microcapsules filled with liquid-state substances, the microcapsules being dispersed in the solvent, the working process comprising the steps of:

supplying the working fluid to a working point of the workpiece; and
performing a cutting process of the workpiece at the working point while supplying the working fluid to the working point.

4. (Currently Amended) A working process which performs a working of a workpiece with a working fluid, the working fluid containing a solvent and microcapsules filled with liquid-state substances, the microcapsules being dispersed in the solvent, the working process comprising the steps of:

supplying the working fluid to a working point of the workpiece; and

performing a grinding process of the workpiece at the working point while supplying the working fluid to the working point.

5. (Currently Amended) A working process which performs a working of a workpiece with a working fluid, the working fluid containing a solvent and microcapsules filled with liquid-state substances, the microcapsules being dispersed in the solvent, the working process comprising the steps of:

forming a mixture of the working fluid and abrasive particles;
supplying the mixture of the working fluid and the abrasive particles to a working point of the workpiece; and

performing a polishing process of the workpiece at the working point while supplying the mixture to the working point.

6. (Currently Amended) A working process which performs a working of a workpiece with a working fluid, the working fluid containing a solvent and microcapsules filled with liquid-state substances, the microcapsules being dispersed in the solvent, the working process comprising the steps of:

supplying the working fluid to a working point of the workpiece; and
performing a plastic deformation process of the workpiece at the working point while supplying the working fluid to the working point.

7. (Currently Amended) A method of production of a working fluid which is supplied to a working point where a working of a workpiece is performed ~~with the working fluid, the method comprising the steps of:~~

producing microcapsules that are filled with liquid state substances
comprising an etchant; and

mixing the microcapsules and a solvent so that the microcapsules are dispersed in the solvent to form the working fluid,

wherein, in said producing step, a process, ~~which is selected from the group including at least comprising~~ a surface polymerization process, an "in situ" polymerization process, a coacervation process, an immersion hardening/coating process and an immersion drying process, is performed to produce the microcapsules ~~filled with the liquid state substances.~~